Claims

We claim:

1. An image visualization method, comprising:

displaying an information visualization model having a plurality of nodes, wherein at least one node in the information visualization model is configured to:

perform a calculation based on values displayed by other nodes in the information visualization model; and

display a result of the calculation.

2. The method of claim 1, wherein the value displayed by each of the other nodes in the information model is provided by either:

assigning a value to the node; or

performing a calculation based on values displayed by other nodes in the information visualization model.

3. The method of claim 1, wherein the calculation is performed using values displayed by other nodes in the information visualization model having a Degree of Interest (DOI) level that is less than the at least one node.

4. The method of claim 1, wherein the information visualization model comprises a Focus+Context model.

5. The method of claim 1, wherein the Focus+Context model comprises a hyperbolic tree.

6. The method of claim 1, wherein the at least one node performs the calculation using values displayed by its child nodes.

7. The method of claim 1, wherein the at least one node performs the calculation using values displayed by its grandchild nodes.

8. The method of claim 1, wherein the calculation performed by each of the at least one node is dependent upon a relative position of the node in the information visualization model.

9. The method of claim 8, wherein a first calculation is performed when a node is in focus, and wherein a second calculation is performed when a node is not in focus.

10. An image visualization system, comprising:

a system for displaying an information visualization model having a plurality of nodes, wherein at least one node in the information visualization model comprises a system for:

performing a calculation based on values displayed by other nodes in the information visualization model; and

displaying a result of the calculation.

11. The system of claim 10, wherein the value displayed by each of the other nodes in the information model is provided by a system configured to either:

assign a value to the node; or

perform a calculation based on values displayed by other nodes in the information visualization model.

12. The system of claim 10, wherein the calculation is performed using values displayed by other nodes in the information visualization model having a Degree of Interest (DOI) level that is less than the at least one node.

13. The system of claim 10, wherein the information visualization model comprises a Focus+Context model.

14. The system of claim 10, wherein the calculation performed by each of the at least one node is dependent upon a relative position of the node in the information visualization model.

15. The system of claim 14, wherein a first calculation is performed when a node is in focus, and wherein a second calculation is performed when a node is not in focus.

16. A program product stored on a recordable medium, which when executed, comprises:

program code for displaying an information visualization model having a plurality of nodes, wherein at least one node in the information visualization model is configured to perform a calculation based on values displayed by other nodes in the information visualization model, and to display a result of the calculation.

17. The program product of claim 16, wherein the value displayed by each of the other nodes in the information model is provided by program code for either:

assigning a value to the node; or

performing a calculation based on values displayed by other nodes in the information visualization model.

18. The program product of claim 16, further comprising program code for performing the calculation using values displayed by other nodes in the information visualization model having a Degree of Interest (DOI) level that is less than the at least one node.

19. The program product of claim 16, wherein the calculation performed by each of the at least one node is dependent upon a relative position of the node in the information visualization model.

20. The program product of claim 19, wherein a first calculation is performed when a node is in focus, and wherein a second calculation is performed when a node is not in focus.